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NPIC/TSSG/DED-1724-69
15 July 1969

MEMORANDUM FOR : Chief, SpAD

SUBJECT : Participation in an Image Quality Experiment

1. The participation of eight SpAD photo interpreters in an image quality comparison experiment is requested. The experiment can be conducted at your convenience during the week of 14 July 1969; approximately sixteen man hours will be required.

2. The acquisition and/or display systems of the future may include line-scan or sampled imagery (CRT, electron beam, etc.) in one or more phases. Recognizing this, the system parameters to produce an adequate sampled image must be determined. This can occur only after a measure of image quality has been established. The subject experiment is an initial step toward specifying such a measure.

3. Controlled images of military vehicles have been prepared by [redacted] using both line-scan and conventional photographic processes. An experiment has been designed by [redacted] to compare PI response to images of the same objects, prepared by both techniques. A description of the method and a list of PI instructions is attached for your information (Please do not allow participants to see them).

4. Statistical considerations set the number of PI's required to participate in such an experiment. From a practical viewpoint, every effort is made to minimize the burden on any one group. Experience to date shows that a PI requires one hour and ten minutes (on the average) to complete the test comparisons. Three to four PI's can participate at one time. Consequently, less than a half of a work day is necessary to collect the data.

5. As an added requirement in the experiment, ground resolution has been included as a response variable. Therefore, the results should also be indicative of the ground resolution required to identify vehicular G.O.B. type of equipment. If the results support this view, a more extensive experiment using operational imagery is planned for the future.

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6. At the conclusion of the project, the contractor will brief all participants on the results; a separate briefing for SpAD can be arranged if desired. A copy (s) of the final report will also be furnished.

7. The program manager for this office is [REDACTED]
Please feel free to contact him at any time. Your cooperation will be extremely helpful and is sincerely appreciated.

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[REDACTED]
Chief, Development & Engineering Division, TSSG

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Attachment: a/s

Distribution:

Original - Addressee
3 - TSSG/DED

NPIC/TSSG/DED, [REDACTED] (16 July 1969)

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